



Section B:2

Analytical Services

(222-S, HASP, WSCF)

PROJECT MANAGERS

S.H. Wisness, RL
(509) 373-9337

D.L. Renberger, FH
(509) 372-0877

SUMMARY

The Analytical Services (AS) Project [222-S, Hanford Analytical Services Program (HASP), Waste Sampling and Characterization Facility (WSCF)] consists of Analytical Services, PBS WM06, WBS 1.2.4.

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, Milestone Achievement, and Cost/Schedule data contained herein is as of February 28, 2001. Other data is updated as noted.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, DOE-RL) shows no milestones are due.

NOTABLE ACCOMPLISHMENTS

A total of 0.73 Analytical Equivalency Units (AEUs) were processed at the 222-S Laboratory in February in support of the River Protection Project (RPP) (TWRS) tank characterization program. Production through February was 3.9 AEUs versus a planned 4.1 AEUs. Production through March 9, 2001 was 4.3 AEUs. The final report for Tank 241-AW-104 for characterization of the 242-A Evaporator feed was completed on February 12, 2001. The final reports for Tanks 241-AY-102, 241-S-107 and 241-S-101 were completed and released on February 9, 2001, March 7, 2001 and March 13, 2001, respectively. Two shipments of 241-AW-101 material (15 liters total) were completed to Savannah River in support of treatability studies for the Waste Treatment Plant.

The Waste Sampling and Characterization Facility (WSCF) performed 7,009 analyses through February 2001 for a wide variety of customers. Production through March 21, 2001 was 7,837 analyses.

The 222-S Laboratory Complex, Part A, Form 3, Revision 9 was approved by Ecology on March 19, 2001. The Part A, Form 3, was revised to include illustrations that were modified to show the "loading/unloading areas" and removal of 26 dangerous waste numbers eliminated in accordance with Federal Register's (FR) 50 FR 51125, 62 FR 32977, and Washington Administrative Code (WAC) 173-303.

Analytical Excellence Inc. completed the WSCF Comparability Study and it was transmitted to RL. Fluor Hanford (FH) Analytical Services will take each of the recommendations from this study and develop an implementation program, which will include work prioritization and correlation with existing work scope to identify whether a Baseline Change Request is needed.

Cindy Belew (222-S Laboratory) received the Radiation Control Technician (RCT) of the Year Award given by the Columbia Chapter of the Health Physics Society. This award is given to the best RCT on Site, including Energy Northwest, Bechtel, PNNL, Siemens, FH, and the River Protection Project (CHG).

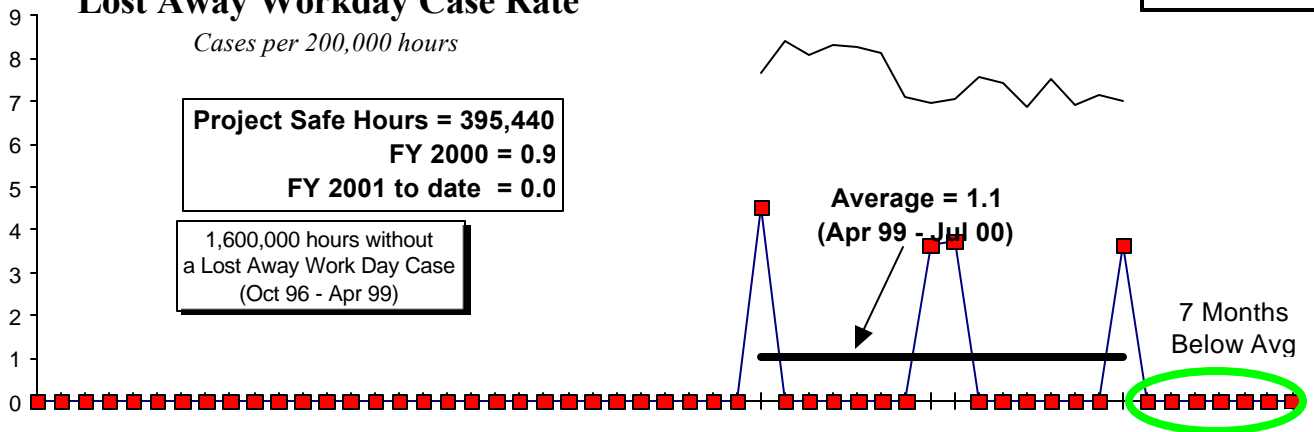
SAFETY

In February 2001, there was one Restricted Workday Case, three First Aid Cases and two Report Only (no symptoms) Cases. With the restricted workday case in February, there was not a significant improvement in the OSHA case rate. However, it has been seven months since the last Lost Away Workday Case, so the Lost Away Workday Case Rate is rated green.

Green

Lost Away Workday Case Rate

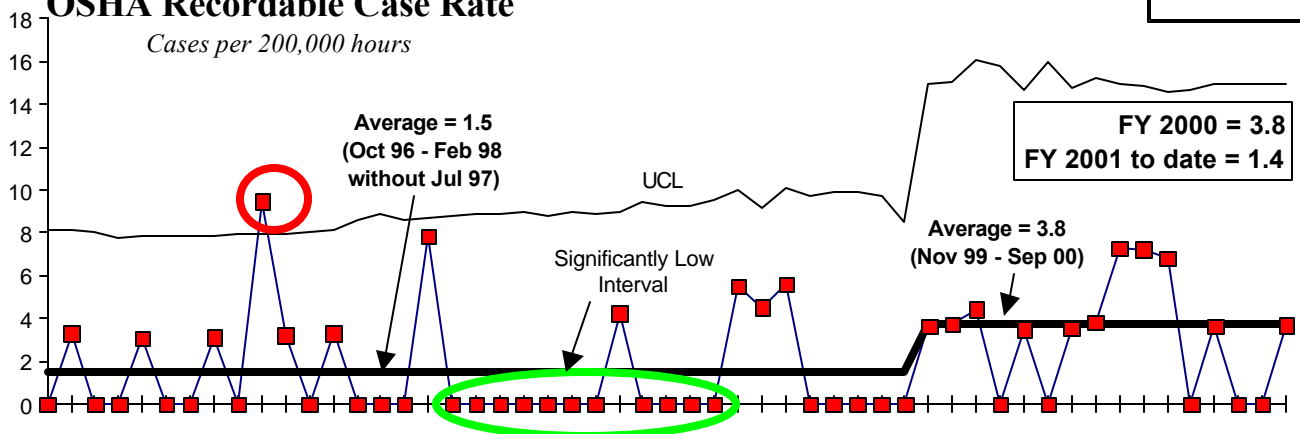
Cases per 200,000 hours



Green

OSHA Recordable Case Rate

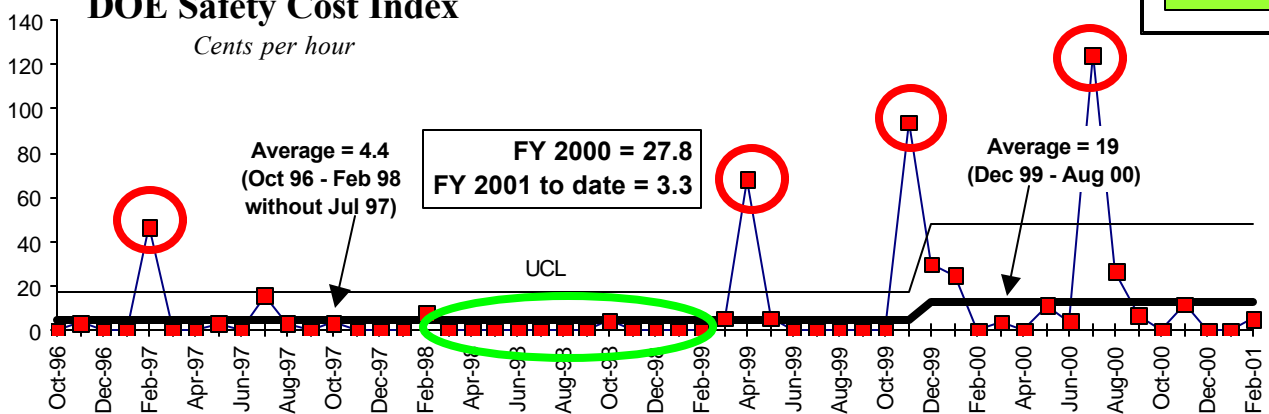
Cases per 200,000 hours



Green

DOE Safety Cost Index

Cents per hour

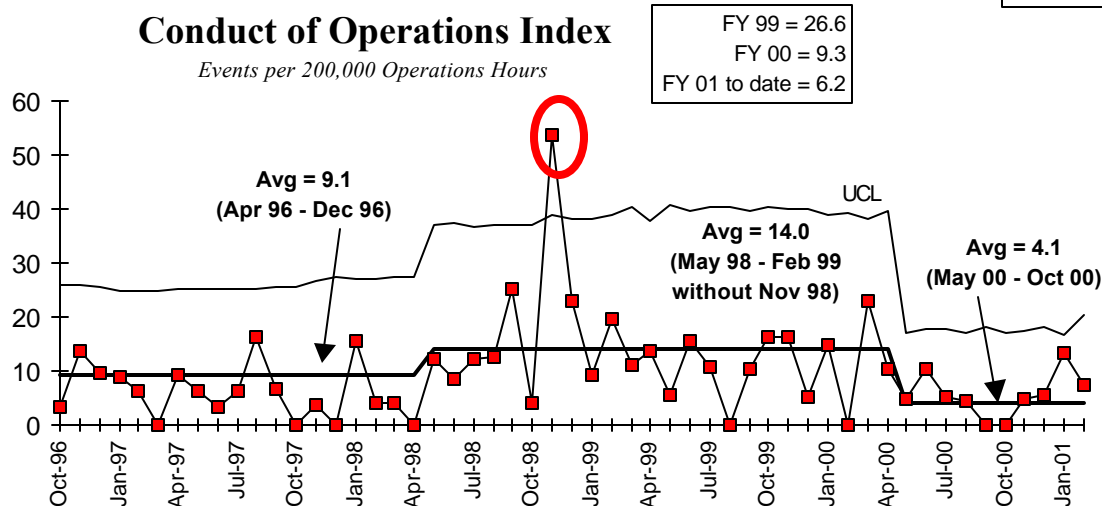


ISMS STATUS

Analytical Services ISMS status is included in the Waste Management Project Section of this report.

CONDUCT OF OPERATIONS

Green



BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT

Nothing to report at this time.

UPCOMING ACTIVITIES

WIPP Waste Shipments — Continue to support the production goal of headspace analysis in support of waste shipments to Waste Isolation Pilot Plant (WIPP). This includes an additional 72 drums planned for sampling in April and May, beyond the baseline 200 drums previously planned. Continue discussions with Idaho National Engineering and Environmental Laboratory (INEEL) (located at Idaho Falls, ID.) regarding possible support to the INEEL WIPP program.

ORP Waste Treatment Plant (WTP) — Support RL and Office of River Protection (ORP) efforts to evaluate options for long-term high-activity laboratory support to the Site cleanup mission (i.e. 222-S, WTP laboratory, a new laboratory, etc.).

Ecology Inspection of Collodion Recovery Actions — Support RL to assess impacts and respond to the Ecology close-out letter, which documents potential violations and concerns from the Ecology inspection at 222-S and WSCF. Support the identification of any additional work scope imposed by the potential violations and concerns communicated by Ecology.

222-S RCRA Part B Application — Ecology has set the Public Comment period for Modification F of the Hanford Site RCRA Permit for April 19 through June 4, 2001. Modification F includes the 222-S Laboratory Complex RCRA Part B Application. No Public Hearings are planned at this time, but will be held if specifically requested during the Public Comment period.

WSCF HVAC Outage — Continue to work toward the scheduled 10-day outage in May for the HVAC upgrade.

MILESTONE ACHIEVEMENT

Green

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2001
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	0	0	0	0	0	0	0	0
DOE-HQ	0	0	0	0	0	0	0	0
FO	0	0	0	0	0	0	0	0
RL	0	0	0	0	0	1	0	1
Total Project	0	0	0	0	0	1	0	1

Only TPA/EA milestones and all FY2001 overdue and forecast late milestones are addressed in this report. Milestones overdue are deleted from the Milestone Exception Report once they are completed. The following chart summarizes the FY2001 TPA/EA milestone achievement and a Milestone Exception Report follows.

Tri-Party Agreement / EA Milestones
Nothing to report at this time.
DNFSB Commitments
Nothing to report at this time.

MILESTONE EXCEPTION REPORT

<u>Number/WBS</u>	<u>Level</u>	<u>Milestone Title</u>	<u>Baseline Date</u>	<u>Forecast Date</u>
-------------------	--------------	------------------------	----------------------	----------------------

Overdue – 0

Forecast Late – 0

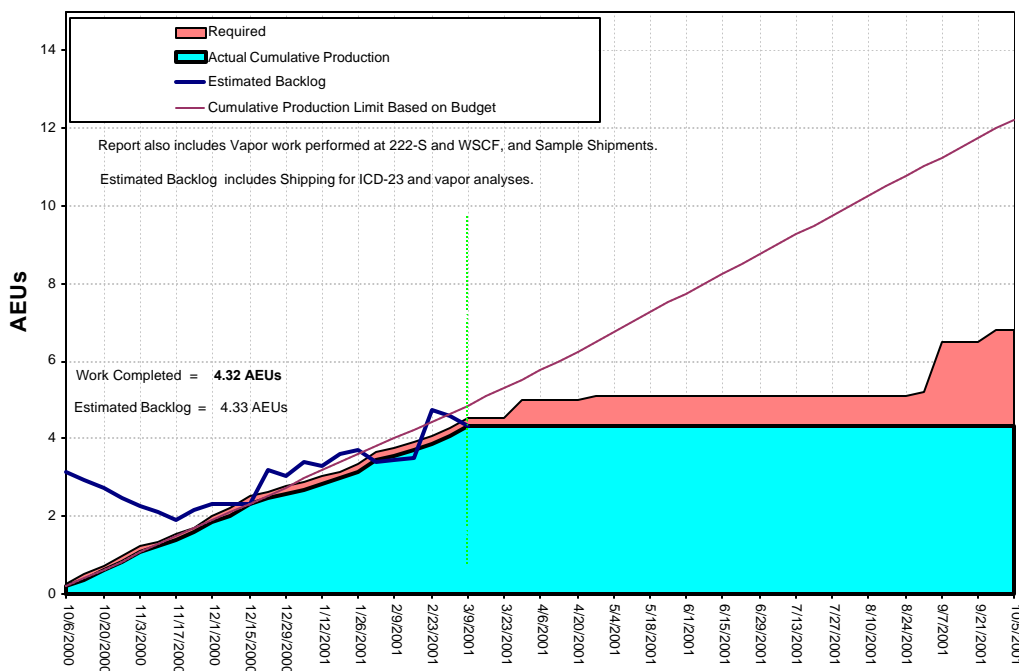
PERFORMANCE OBJECTIVES

Green

Laboratory Production

Budgeted Capacity vs. Actual Production - TW01

March 13, 2000



Processed a total of 0.73 Analytical Equivalency Unit (AEUs) at the 222-S Laboratory in February in support of the River Protection Project (RPP) (TWRS) tank characterization program. Production through February was 3.9 AEUs versus a planned 4.1 AEUs. Production through March 9, 2001 was 4.3 AEUs.

FY 2001 SCHEDULE /COST PERFORMANCE – ALL FUND TYPES CUMULATIVE TO DATE STATUS – (\$000)

Green

		FYTD								
By PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	EAC
WBS 1.2.4	Analytical	\$ 12,942	\$ 12,591	\$ 12,233	\$ (351)	-3%	\$ 358	3%	\$ 32,332	\$ 32,050
PBS WM06	Services									
Total		\$ 12,942	\$ 12,591	\$ 12,233	\$ (351)	-3%	\$ 358	3%	\$ 32,332	\$ 32,050

Note: RL-Directed costs (steam and laundry) are included.

FY TO DATE SCHEDULE / COST PERFORMANCE

The \$0.4 million (3 percent) unfavorable schedule variance is due to the 222-S HEPA filters. Facility shutdown will be necessary for the 222-S HEPA filter installation. Due to higher plant priorities, the shutdown is scheduled for September 2001.

The \$0.4 million (3 percent) favorable cost variance is due to costing delays, lagging contract costs, delays in billings of assessments and staff vacancies.

For all active sub-PBSs and TTPs associated with the Operations/Field Office, Fiscal Year to Date (FYTD) Cost and Schedule variances exceeding + / - 10 percent or one million dollars require submission of narratives to explain the variance.

Schedule Variance Analysis: (-\$0.4M)

Analytical Services — 1.2.4/WM06

Description and Cause: The \$0.4 million (3 percent) unfavorable schedule variance was due to the 222-S HEPA filters.

Impact: None.

Corrective Action: Facility shutdown will be necessary for the 222-S HEPA filter installation. Due to higher plant priorities, the shutdown is scheduled for September 2001.

Cost Variance Analysis: (+ \$0.4M)

Analytical Services — 1.2.4/WM06

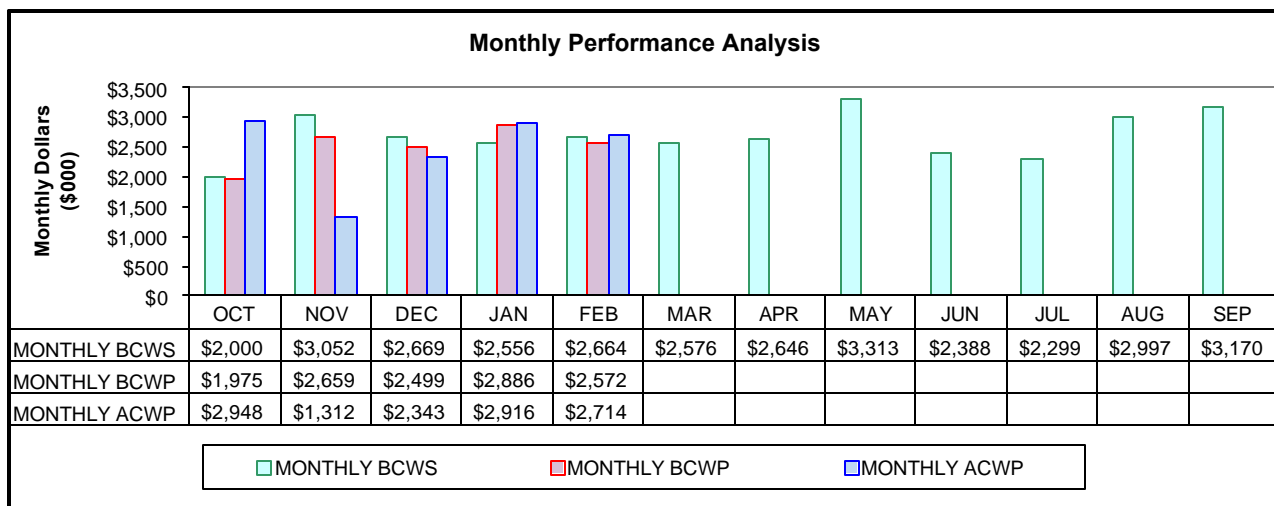
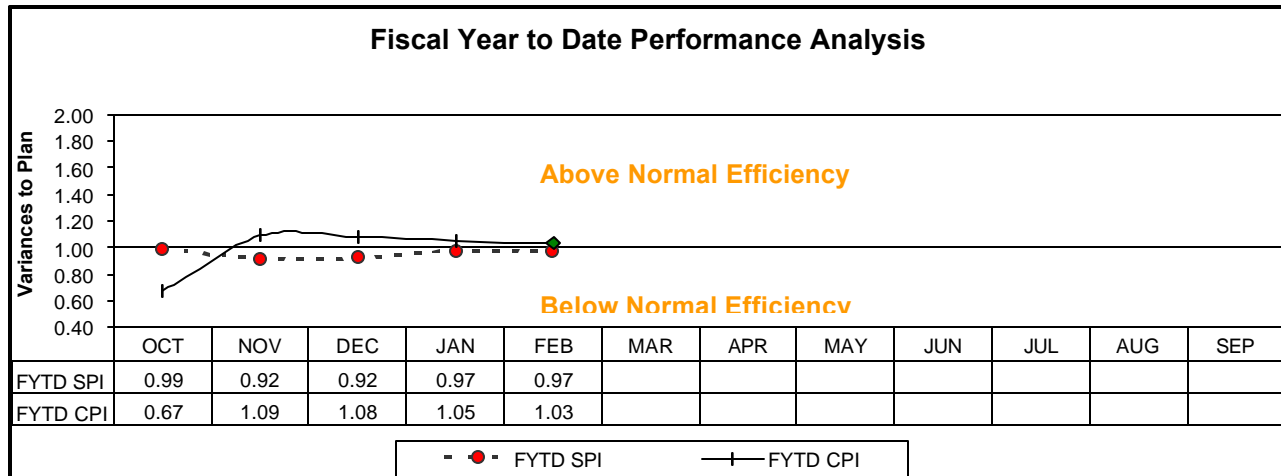
Description and Cause: The \$0.4 million (3 percent) favorable cost variance was due to costing delays, lagging contract costs, delays in billings of assessments and staff vacancies.

Impact: None.

Corrective Action: None required.

SCHEDULE / COST PERFORMANCE (MONTHLY AND FYTD)

Green



FUNDS MANAGEMENT — FY 2001 TO DATE

FUNDS VS SPENDING FORECAST (\$000)

	Project Completion *			Post 2006 *			Line Items *		
	Funds	FYSF	Variance	Funds	FYSF	Variance	Funds	FYSF	Variance
The Plateau									
1.2.4 Analytical Svcs (222-S,HASP,WSCF)				\$ 31,043	\$ 31,514	\$ (471)			
WM06									
Line Item									
Total Analytical Serv. Operating				\$ 31,043	\$ 31,514	\$ (471)			
Total Analytical Serv. Line Item									

* Control Point

ISSUES

Technical Issues

Shear Strength Measurements at 222-S — Shear strengths previously reported by the 222-S laboratory were miscalculated. The affected tanks and reports are AW-103, AY-101, AY-102, AZ-101, AZ-102, C-104, SY-101 and U-107. Two of the AZ-102 shear strength measurements are uncorrectable, but other, correctable measurements have been made on the same segment materials.

Impacts: Impacts are currently being assessed by both the River Protection Project (RPP) and 222-S.

Corrective Action: The customer (RPP) has been notified of the miscalculation and the impacted reports are being revised. Additional corrective actions will be identified when the Deficiency Evaluation Group (DEG) process is completed.

Regulatory Issues

Ecology Inspection of Collodion Recovery Actions — The Notice of Correction was received which defined three violations and three concerns. Ecology has levied a fine of \$57.8K.

Impacts: Impacts are being evaluated.

Corrective Action: A meeting was held with Ecology to clarify the scope of Corrective Measure #1. Additional meetings will likely occur. FH has initiated the Scope and Cost Management Process (SCMP) on the additional work scope imposed by the potential violations and concerns communicated by Ecology. Cost estimates have been developed by Analytical Services to implement of Ecology's Corrective Measures, which will be rolled up with other FH organizations for consideration as new scope. FH is working with RL on an appeal to the Notice of Correction.

External, DOE Issues and DOE Requests

Issue: None identified at this time.

BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS (\$000)

PROJECT CHANGE NUMBER	DATE ORIGIN	BCR TITLE	COST IMPACT \$000	S C H	T E C H	DATE TO CCB	CCB APR'VD	RL APR'VD	CURRENT STATUS
		Nothing to report at this time.							
ADVANCE WORK AUTHORIZATIONS									
		Nothing to report at this time.							

KEY INTEGRATION ACTIVITIES

- Continue to support DOE-RL and ORP efforts to establish required analytical support for Waste Treatment Plant (WTP) design and operation.
- Continue to support Waste Management headspace gas analyses for transuranic (TRU) waste shipment to WIPP.
- Support CHG high-level waste tank vapor analysis and feed to glass plant characterization.